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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|----------------|----------------------|-------------------------|------------------|
| 09/284,578 | 10/08/1999 | AKIKO MIYA | 325/E6627 | 2522 |
| 7 | 590 09/06/2002 | | | |
| WENDEROTH LIND & PONACK 2033 K STREET NW SUITE 800 | | | EXAMINER | |
| | | | WEBMAN, EDWARD J | |
| WASHINGTON, DC 20006 | | ART UNIT | PAPER NUMBER | |
| | | | 1617 | |
| | | | DATE MAILED: 09/06/2002 | 16 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. 09/284578 | Applicant(s) |
|---|---|---|
| Office Action Summary | Examiner | Group Art Unit |
| | WEBM | |
| —The MAILING DATE of this communication app | ears on the cover sheet b | peneath the correspondence address— |
| Period f r Reply | _ | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION. | T TO EXPIRE | MONTH(S) FROM THE MAILING DATE |
| Extensions of time may be available under the provisions of 37 CF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, such period shall, by defe Failure to reply within the set or extended period for reply will, by s | a reply within the statutory minimult, expire SIX (6) MONTHS from | num of thirty (30) days will be considered timely. In the mailing date of this communication . |
| Status | / / | |
| Responsive to communication(s) filed on | 121/02 | |
| ☐ This action is FINAL. | | - · · - · · · · · · · · · · · · · · · · |
| Since this application is in condition for allowance exce accordance with the practice under Ex parte Quayle, 1 | | |
| Disposition of Claims | | |
| Claim(s) $1-9, 11, 23-26$ | is/are pending in the application. | |
| Of the above claim(s) | | |
| | is/are allowed. | |
| $\sqrt{\frac{1-9}{1}} = \frac{1-9}{1} = \frac{10}{23-26}$ | is/are rejected. | |
| □ Claim(s) | | |
| ☐ Claim(s)———————————————————————————————————— | | are subject to restriction or election requirement. |
| Application Papers | | |
| ☐ Se the attached Notice of Draftsperson's Patent Drav | • • | |
| ☐ The proposed drawing correction, filed on | | ☐ disapproved. |
| ☐ The drawing(s) filed on is/are ob | jected to by the Examiner. | |
| ☐ The specification is objected to by the Examiner. | | |
| ☐ The oath or declaration is objected to by the Examiner | • | |
| Pri rity under 35 U.S.C. § 119 (a)-(d) | | |
| □ Acknowledgment is made of a claim for foreign priority □ All □ Some* □ None of the CERTIFIED copies | • , , | • • |
| ☐ received. | | |
| received in Application No. (Series Code/Serial Nur | nneri | |
| ☐ received in this national stage application from the | • | Rule 1 7.2(a)). |
| • | nternational Bureau (PCT F | |
| $\hfill\Box$ received in this national stage application from the l | nternational Bureau (PCT F | |
| □ received in this national stage application from the l *Certified copies not received: | nternational Bureau (PCT F | |
| □ received in this national stage application from the latest the latest the stage application from the lat | r No(s). | · |

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

7)

Part of Paper No. 16

Art Unit: 1617

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 11, 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Guire.

Guire teaches a solid surface modified with a linker covalently bound to the surface by photo activation of one linking group, the other linking group being bound to a biocompatible agent (abstract). Antibiotics are specified (column 6, line 16), including penicillin (claim 6). A linkage of a carboxyl group to nitrogen or oxygen is specified (column 7, lines 36-39). Polyolefins are specified (column 4, line 33).

Applicants argue that Guire however, it is argued that the linking group

1 constitutes a graft. Guire teaches binding the linking moiety to the polymer substrate

and then covalently binding the biocompatible agent to the linker (column 3 lines 17-28).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily

Art Unit: 1617

published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-6, 11, 23-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Patnaik et al '165.

Patnaik et al '165 teach a PTFE backbone bound to a polymeric spacer with amine terminal bounds which is in turn bound to a bioactive molecule (abstract, column 4 lines 54-59). An amide bond is specified column 5 lines 1-5). Antibiotics are specified (column 6, line 29). Polymeric spacers are disclosed (column 5 lines 54-59).

Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Guire as applied to claims 1-7, 11, 23-26 above, and further in view of Notice under MPEP 2148,03.

Guire is discussed above.

The examiner takes notice under MPEP 2144.03 that both tetracycline and benanomicin contain a hydroxyl groups.

It would have been obvious to one of ordinary skill to attach tetracycline or benanomicin to the polymer of Guire in view of the fact that they both contain hydroxyl groups, which can be reacted with NOS of Guire.

Claims 6-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Patnaik et al '165 as applied to claims 1-6, 11, 23-26 above, and further in view of notice under MPEP 2144.03.

Patnaik et al '165 is discussed above, the examiner takes notice under MPEP 2144.03 that penicillin, Lymecycline and benanomicin contain a carboxylic acid group.



Art Unit: 1617

It would have been obvious to one of ordinary skill to attach penicillin, lymecycline, or benanomicin to the polymer of Patnaik et al, '165 in view of the fact that they contain a carboxylic acid group which can be reacted with the amine terminated spacer of Patnaik et al '165.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 11, 23, 25, 30-31 are rejected under 35 U.S.C. 102(b) as being anticipated by Sugo.

Sugo teach graft polymerization of a monomer to a polyolefin base and introducing and anytime crobial group to the grafted chain (abstract). Graft polymerization with a gas of a reactive monomer is specified (column 3 lines 24-29). Further reaction with amino acids is disclosed to form an antimid crobial group (column 3 lines 32-48).

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application

Art Unit: 1617

being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-7, 9, 11, 23, 25, 31 are rejected under 35 U.S.C. 102(e) as being anticipated by Goldberg et al.

Goldberg et al teach a surface graft-Polymerized with a monomer wherein a considered polyolefins (column 15 line 1). Penicillin and tetracyclone are disclosed (column 17 lines 56, 57). As to the claimed process, process steps are not considered patentable during prosecution of product-by-process claims before the PTO.

No claims allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Webman whose telephone number is (703) 308-4432. The examiner can normally be reached on Monday to Friday 9 Am 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minna Moezie can be reached on (703) 308-0570. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3592 for regular communications and (703) 305-3592 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

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Art Unit: 1617

Webman/LR August 14, 2002

> EEWARU J. VIEBMAN PRIMARY ENAMER GROUP 1500